How to use ADEM's Corrective Action System-Effectiveness Report Forms

This Excel Wookbook contains the 16 sections of the System-Effectiveness Monitoring Report (SEMR):

Section 1 - Summary of Corrective Action

Section 2 - Site Map/System Layout

Section 3 - Well Inventory Table

Section 4 - System Down Time Summary

Section 5 - Site Visit Summary

Section 6 - History of Sampling

Section 7 - History of Major Maintenance/Repair Activities

Section 8 - Free Product Information

Section 9 - Groundwater Extraction Information

Section 10 - Vapor Extraction Information

Section 11 - Groundwater Influent and Effluent Analytical Data

Section 12 - Air Effluent Concentration Data

Section 13 - Infiltration Gallery/Recharge Well Information

Section 14 - Monitoring/Recovery Well Analytical Data

Section 15 - Groundwater Elevation Data

Section 16 - Operation and Maintenance Costs Versus Time

These 16 sections are distributed over 15 forms. Sections requiring graphs are preformatted to generate the graphs.

Which Sections To Submit

For sites with remediation systems for pump & treat, soil vapor extraction, dual-phase extraction etc., all 16 sections should be completed and submitted. Section 16 is only required for sites covered by the Alabama Tank Trust Fund. For sites with Remediation by Natural Attenuation, sections 3, 4, 5, 6, 14, 15, and 16 should be completed and submitted.

Instructions On Completing the Sections

Section 1. Summary of Corrective Action

Indicate the type of remediation system(s) at the site. Complete the information regarding the type of equipment being used. The information in this section should only be changed when modifications are made to the system of the equipment. Simply place an "X" in the box(es) that apply for system type. Complete the "Date System Installed" and "System Startup Date" at the bottom of the page 1 on this section. Page 2 of this section covers the major equipment on the site. Brand name, Serial Number, Type, Capacity, and Warranty Expiration Date should be included for all pieces of equipment on-site. Space for comments is provided on both pages of this section.

Section 2 - Site Map/System Layout

Attach an "as-built" site diagram illustrating the layout of the remediation system. New drawings should not be generated unless system modifications have been made. The map should include the system layout, well locations, adjacent properties, north arrow, buildings, scale, etc. Also, a treatment schematic drawing should be provided.

Section 3 - Well Inventory Table

Provide a complete listing of all wells at the site including installation date, diameter, and screened interval (e.g., from 15 to 25 feet). The form may be modified to add additional wells. If there are no sparging/vapor extraction wells, then this table can be deleted to allow additional space for documenting additional monitoring or recovery wells.

This form may be modified to allow for the addition of additional wells, but it should not be modified for additional columns.

Section 4 - System Down Time Summary

List all known system down times. Explain the reason(s) for down time along with corrective measures taken to bring the system back into operation. Examples may include high tank shutoff, compressor or pump failures, plugging of discharge lines, wells, infiltration galleries or flow leters, or other system problems. Note and discuss any system problems that are repeatedly occurring, or that have historically caused other system down time. For Remediation by Natural Attenuation Monitoring Reports, this section should be used to report any delays and the reason(s) for those delays in implementing the scheduled monitoring schedule. Examples may include obstructed or destroyed monitoring well.

Section 5 - Site Visit Summary

Every site visit should be recorded in this setion. Include the reason for the visit, the name, company and title of the person visiting the site. The most efficient method to complete this section is to keep the form at the site as an on-going field log. As long as it is legible, the field log company and title of the person visiting the site. The most efficient method to complete this can then be included in the report.

Section 6 - History of Sampling

List all sampling events conducted at the site and the sources that were sampled (e.g., monitoring wells, recovery wells, recovery trenches, treatment systems).

Section 7 - History of Major Maintenance/Repair Activities

Provide a cumulative record of major maintenance and/or repairs activities that have taken place. Examples may include repair or replacement of pumps, compressors, blowers, etc. The dismantling and cleaning of air strippers and oil/water separators should be discussed.

Section 8 - Free Product Information

Discuss the presence of free product and indicate the method of recovery along with the volumes recovered during the reporting period. Provide the total volume (in gallons) of free product recovered to date and any significant recovery event that may have occurred. Free product thicknesses, elevation data, and a plot of total product recovered versus time should be provided. The form is preformatted to produce the graph. Simply replace the existing sample data with your actual data and the graph will be automatically modified. Use a new form for each free product recovery point. Simply use the "Move or Copy Sheet..." command under "EDIT" to copy the form and place the new copy behind the first form.

Section 9 - Groundwater Extraction Information

Provide flow rate information for the groundwater extraction system. Include the design flow rates, actual average flow rates for the first month of operation, average flow rates since the startup (total water volume divided by total time since startup), and average flow rates for the reporting period. Also, indicate if the pump(s) is operating on a continual or cycling basis. Data for each extraction point should be provided. The form allows for reporting seven extraction points. If there are more than seven extraction points, select and copy the section and paste it below on the same page. There is room on the form to add an additional section. If Section 10 - Vapor Extraction Information is not going to be used and you need additional space for Section 9 reporting, then "Clear" Section 10 and "Paste" another copy of Section 9 in it's place.

Section 10 - Vapor Extraction Information

Provide air flow rate information for the vapor extraction system. Include the air design flow rates, actual average air flow rates for the first month of operation, averageair flow rates since the startup (total air volume divided by total time since startup), and average air flow rates for the reporting

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period. Also, indicate if the blower(s) is operating on a continual or cycling basis. Data for each extraction point should be provided. The form allows for reporting seven extraction points. If there are more than seven extraction points, select and copy the section and paste it below on the same page. There is room on the form to add an additional section. If Section 9 - Groundwater Extraction Information is not going to be used and you need additional space for Section 10 reporting, then "Clear" Section 9 and "Paste" another copy of Section 10 in it's place.

Section 11 - Groundwater Influent & Effluent Concentration Data

Data regarding influent and effluent concentrations for the chemicals of concern should be tabulated and graphed. Provide the permitted discharge limits for the chemicals of concern. The form is preformatted to produce the graph. Simply replace the sample data with your actual data and the graph will be automatically modified. Up to 8 chemicals of concern may be included in the table and the graph. If there are more than 8 chemicals of concern, another form should be added. Simply use the "Move or Copy Sheet..." command under "EDIT" to copy the form and place the new copy behind the first form.

Section 12 - Air Effluent Concentration Data

Present organic vapor readings regarding effluent concentration in both tabular and graphical formats. A graph should be provided for each measuring point. Additionally, in the table and on separate data plots, provide the influent and effluent concentrations and allowable discharge limits for all other constituents regulated by the air discharge permit. If the air discharge permit has limits for the maximum total discharge of a given constituent, a plot showing total discharge over time should be prepared for each regulated contaminant. For each data plot, provide a benchmark line on the effluent concentration graph equivalent to the compliance objectives. The preformatted graph must be modified to add your site-specific benchmark line.

For more than one measuring/sampling point, an additional form must be used.

Section 13 - Infiltration Gallery/Recharge Well Information

Provide depth to water data from the infiltration gallery and/or recharge wells in both tabular and and graphical form. Data should be presented for the current period and the previous 11 events. The table and graph are preformatted to list and display 8 monitoring points and the system discharge. If more than 8 points are needed, another form should be used for those points.

Section 14 - Monitoring/Recovery Well Concentration Data

Provide results from the groundwater sampling events in tabular and graphical form. Results from both monitoring and recovery wells should be presented. Data presented should include the initial concentrations measured just before or after system startup, the concentration in the current sampling event, and the concentrations from the previous 10 events. The form is formatted to present 1 monitoring point at a time, but up to 9 constituents at a time. The form is preformatted to graphically present this data. Simply replace the sample data with your site data and the graph will be automatically modified.

Attach the three most recent isoconcentration maps for benzene and total BTEX. In some cases, it may be more appropriate to present other constituents, contact the ADEM Project Manager to determine what maps are needed.

Section 15 - Groundwater Elevation Data

Compile a table of groundwater elevation data for each measuring point and indicate the location of the measuring point. Attach the three most recent groundwater elevation maps, each with a groundwater flow direction arrow. Additionally, include surveyed top of casing for each measuring point.

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Section 16 - Operation and Maintenance Costs Versus Time

This section is only required for those systems covered by the Alabama Tank Trust Fund. A table and graph of the O&M costs for the current period and previous 11 periods should be presented. Graphs should have a benchmark line representing the current annual O&M budget (including all approved adjustments, change orders, and reductions) for a twelve month period. The graph will have to be modified to add this benchmark line.

Corrective Action System

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name:

Facility I. D. No.

Incident No.

Year:

Quarter:

Reporting Period:

through

Consultant:

Project Manager:

	S	ection 1 - Sumr	nary of Corr	ective Acti	ion				
Groundwater:									
Pump & Treat		uid Pumps (elec					· Pumps (elec)		
	Total Fi	aid Pumps (pnet	1)			•	Pumps (pneu)		
Air Sparging			_	P	roduct On	ily Skimmei	Pumps (other)		
J. III. Spilleding									
Vapor Extraction Syste	em	With Off-gas	s Treatment			Without O	f-gas Treatmen	t	
ъ т.	T								
Recovery Trenches:	Length (feet)	W	idth (feet)			Depth (feet)		
Number of Groundwater Recovery	Wells:		Number of Air	r Snaroino	Wells:				
		_	skekekekekekekekekekekekekekekekekekeke	amber of A		n Wells:			
			Nu	ımber of A	ir Extracti	on Wells:			
Stanton Date of the	D 0 W		-						
Startup Dates: Groundwat	ter Pump & Treat		/apor Extracti	ion System			Bioventing		
Type of Water Treatment System:		Packed-Towe	er Stripper			Tray-Type	Stripper		
		Carbon		ffuser		Other:	эм хрро г		
Disposition of Treated Water:		Infiltration G		, Dr. c		Sanitary Se	wer		
		Off-site	INP	PDES		Other:			
Soil:									
Vapor Extraction Syste		With Off-gas					f-gas Treatment		
Number of Vapor Extraction Wells	S:	Type:	Ca	rbon		Thermox	Cat	OΧ	
Bioventing System									
Number of Bioventing Wells:									
	200000000000000000000000000000000000000								
Comments:									
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					·				
Date System Installed:		System Startu	p Date:						

ADEM Form #482 8/02

Corrective Action System (continued)

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name:

Facility I. D. No.

Incident No.

Year:

Quarter:

Reporting Period:

through

Consultant:

Project Manager:

	Section 1	Summary of Correct	ve Action (continued)		
Major Equipment On-site:					Warranty
	Brand	Serial Number	Type	Capacity	Expiration Date
Skimmer Pumps:					
Crown dwystau Dwynau					
Groundwater Pumps:					
Pretreatment/Filter:					
Treatenment/Trice.					
Air Stripper:					
Transfer Pumps:					
Air Compressor:					
Blower/Vacuum Pump:					
Oil-Water Separator:	000000000000000000000000000000000000000				
Vacuum Treatment Equip.:			30500gggggggggggggggggggggggggggggggggg		
Vanas Dhara Calla	Brand	Serial Number	Unit Size		
Vapor Phase Carbon:					
Water Phase Carbon:		I			
water i hase Carbon.					
Enclosure Type:	Fence	Building	Skid	Tou T	
Znelosure Type.	T chec		SKIG	Other:	
Telemetry: Model Num	ıber:		Serial Number:		
,			Beriai Itumber.		
Comments:					
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SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name: Facility I. D. No.

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		Attacn a	map wiii	ch shows			ell locations le a treatmer			ties, north ar	rrow, build	lings, etc.		
				Secti	on 3 - Wel									
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Well	Date	Diameter	Scre	eened	Well	Date	Diameter		eened	Well	Date	Diameter	Scr	eened
Number	Installed		Interv	al (feet)	Number				/al (feet)	Number	Installed			/al (feet)
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						Rer	covery W	ella	-					
Well	Date	Diameter	Scre	eened	Well	Date	Diameter		eened	Well	Date	Diameter	Scre	eened
Number	Installed	(inches)		al (feet)	Number	Installed	(inches)		al (feet)	Number	Installed	(inches)		al (feet)
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Well	Τ	1_, _,_					apor Extra							
Well Number	Date installed	Diameter (inches)		eened	Well	Date	Diameter		ened	Well	Date	Diameter		eened
Number	Instance	(Inches)	Ifileiva	al (feet)	Number	Installed	(inches)	Interva	al (feet)	Number	Installed	(inches)	Interva	al (feet)
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						Injection	1/Recharg	ae Well:	s					
	Date	Diameter	Scre	ened	Well		Diameter		ened	Well	Date	Diameter	Scre	ened
Number	Installed	(inches)	Interva	ıl (feet)	Number	Installed	(inches)	Interva	al (feet)	Number	Installed	(inches)		al (feet)
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Well	Date	Diameter	Scree							on of wel		T_;		
	† · · · · · · · · · · · · · · · · · · ·	(inches)	Interval		Number		Diameter (inches)	Scree Interval		Well Number	1	Diameter (inches)	Scree	
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System Down Time Summary

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name: Facility I. D. No.

Year	Quarter		stoe	ection 4 - S	ystem Down Time Summary (Year to Date)
ı tar	Quarter		ites	No. Days	Explanation of Down Time
		From	То		(Indicate Corrective Measures Taken)
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l	Days System Not Operating:	This Period	Year to Date
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Site Visit Summary

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name:

Facility I. D. No.

			Sectio	n 5 - Site Vis	it Summary		
	Maintenance	Sampling	Sched. System				
Date	(Section 7)	(Section 6)	Monitoring	Other	Name	Company	Title
	<u> </u>						
			 				
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		,					

History of Sampling

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name: Facility I. D. No.

Incident No.

	1	Date of		EPA Me	ethod(s) and	Sampling L	ocation(s)			Sampled By	•
ar	Quarter	Sampling							Name	Company	Title
											
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Note: Indicate sampling location, i.e., monitoring wells, influent, etc. and selected method.

History of Major Maintenance

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name: Facility I. D. No.

Incident No.

	Section 7 - History of Major Maintenance/Repair Activities Since System Start-up
Date	Description of Work Performed*
	nether the work was performed by consultent againment manufactures at

*Indicate whether the work was performed by consultant, equipment manufacturer, etc.

Free Product Information

SYSTEM-EFFECTIVENESS MONITORING REPORT

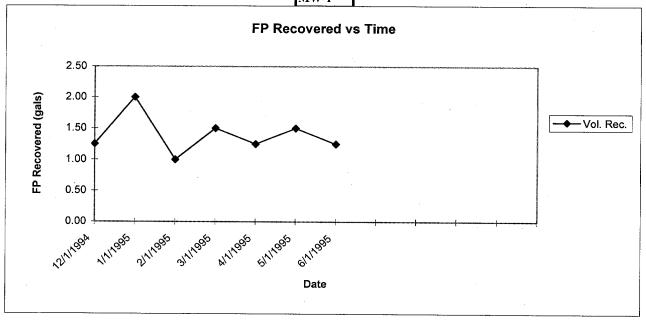
Facility Name:

Facility I. D. No.

free product currently present at the site?			If yes, when was it d	iscovered?		
If no, was free product ever present?			If yes, when was it la	st observed?		
List wells containing fre	ee product and provide	le thicknesses	(inches):			
Recovery Method	This Period		Year to Date		Startup to Date	
Passive		gals.		gals.		gals.
Bailing		gals.		gals.		gals.
Automated		gals.		gals.		gals.
Vacuum Truck		gals.		gals.		gals.
Other (dewatering etc)		gals.		gals.		gals.
Total FP Recovered:		gals.		gals.		gals.

		Free	Product Re	covery (gal:	s) [Curren	t Event Plu	s Previous	10 Events	and Initial	Event]		
Well No:	MW-1											
Date	12/1/1994	1/1/1995	2/1/1995	3/1/1995	4/1/1995	5/1/1995	6/1/1995		MW-0100000000000000000000000000000000000	***************************************		
Vol. Rec.	1.25	2.00	1.00	1.50	1.25	1.50	1.25					1
FP Thk.	,											
GW Elev.												1
Method												
Date FP D	iscovered:		Provide similar Table for Each Well Containing Free Product									

		Summa	ry of Free I	Product Red	covered (gal	ls) - Cumul	ative Totals	by Year		
Year									Current	Total
Vol. Rec.										
	 				MW-1					



Groundwater/Vapor Extraction

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name:

Facility I. D. No.

Incident No.

Year:

Quarter:

Reporting Period:

through

Consultant:

Project Manager:

Sect	ion 9 - Groundwater E	xtraction Inform	ation	
		Flo	ow Rate (gpm)	
	Well No.			Total
Design Flow Rate for Groundwate	er Extraction:			
Actual Average Flow Rate During	First Month:			
Actual Average Flow Rate Since S	Startup:			
Total Gallons Pumped:				
Number of Days Pumping Occurr	ed:			
Reporting Period Average Flow R	ate:			
Pump Operation:	Continual	Cycling		

	Section 10 - Vapor Extra	ction Information											
		Air Flow Rate (cfm)											
	Well No.			To	otal								
Design Flow Rate for Vapor Extr	action System:												
Actual Average Flow Rate Durin	g First Month:												
Actual Average Flow Rate Since	Startup:												
Reporting Period Average Flow I	Rate:												
Blower Operation:	Continual	Cycling											

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name:

Facility I. D. No.

Incident No.

nara da		Tarananan											
									ntration D				
			[C	urrent Mo	ath Plus Pr		lonths	and	Initial Mon	th]			
	T	T /- / /	.			Influent	1						
Date	Initial	12/1/1994		6/1/1995		 	-						Current
Benzene	1000.00			1000.00	750.00	750.00						-	500.00
BTEX	2000.00	<u> </u>		1750.00	1500.00								1000.00
Naphth Other	500.00	500.00	500.00	300.00	300.00	200.00							150.00
Other	<u> </u>												
Other													
Other													
Other													
						<u> </u>	L		I			I	
	Influ	uent Cond	entration	ı vs Time					Effluent (Concentr	ation vs '	Time	
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	L				—◆— Benz	·one			-				Benzene
20	00.00	\		***************************************	BTE>	11	20	0.00	† <i>}</i>)		1 I	BTEX
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		H6"" 104										***************************************	
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	14/16	2/1/19					•	hitial	3/1/09/5 0/1/09/	,			
			Date					•	אי פא				
			Jale							Date			
													<u></u>
						Effluent							
Date	Initial	12/1/1994		6/1/1995		12/1/1995							Current
Benzene	10.00	8.00	7.00	5.00	5.00	5.00							5.00
BTEX	15.00	20.00	20.00	15.00	15.00	20.00							20.00
Naphth	10.00	10.00	10.00	10.00	10.00	10.00							10.00
Other													-
Other													
Other									ŀ				

Have any discharge limits been exceeded?

Other

Air Effluent Concentration Data

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name: Facility I. D. No.

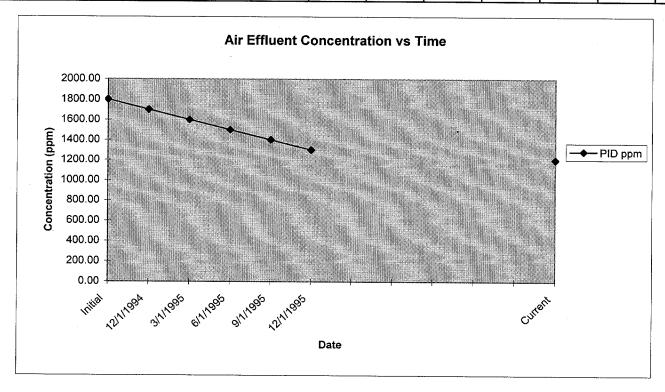
Incident No.

Section 12 - Air Effluent Concentration Data (per permit requirements)

Provide similar table and graph for each vapor extraction point monitored

	Effluent Readings by Event [Current Event Plus 10 Previous Events & Initial Event]												
Point of Measurement: Blower sta				k	Indicate Blo	ower stack,	wells or other						
Date	Initial	12/1/1994	3/1/1995	6/1/1995	9/1/1995	12/1/1995				***************************************	Current		
PID ppm	1800.00	1700.00	1600.00	1500.00	1400.00	1300.00					1200.00		

Laboratory Analysis:							
ТРН ррт					000000000000000000000000000000000000000	***************************************	588888888888888888
BTEXppm							
Other							
Other			 				



Infiltration Gallery/Recharge Well Information

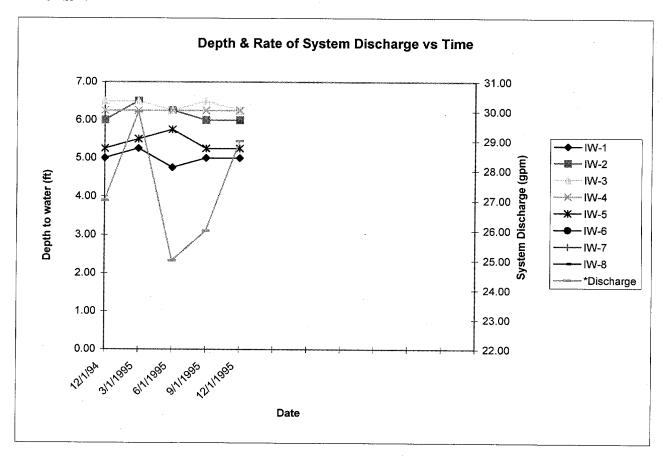
SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name:

Facility I. D. No.

		Section 13 -	Infiltratio	ı Gallery/R	lecharge W	ell Inform	ation [Cu	rect Event	Plus Previo	ıs 11 Event	s)	
Depth to w	vater level (f	t) in infiltra	ation galler	y/injection	well:						******************	*****************
Date	12/1/94	3/1/1995	6/1/1995	9/1/1995	12/1/1995							
IW-1	5.00	5.25	4.75	5.00	5.00							
IW-2	6.00	6.50	6.25	6.00	6.00							
IW-3	6.50	6.50	6.25	6.50	6.25							
IW-4	6.25	6.25	6.25	6.25	6.25							
IW-5	5.25	5.50	5.75	5.25	5.25							
IW-6												
IW-7												
IW-8												
*Discharge	27.00	30.00	25.00	26.00	29.00					1	<u> </u>	

^{*}System Discharge (gpm)

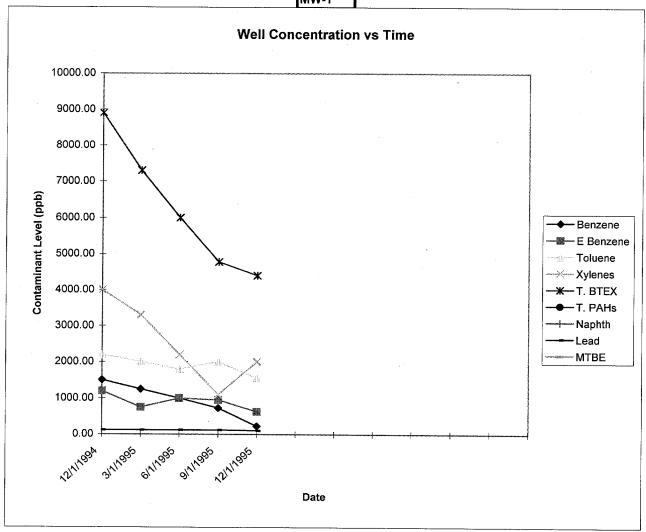


Concentration Data

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name: Facility I. D. No.

	Section 14	- Monitorii	ng/Recover	Well Con	centration I	Data (ug/l)	Currect E	vent Plus P	revious 10	Events & I	nitial Event	
Well No:	MW-1											
Date	########	3/1/1995	6/1/1995	9/1/1995	#######		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************				
Benzene	1500.00	1250.00	1000.00	725.00	225.00							
E Benzene	1200.00	750.00	1000.00	950.00	625.00							
Toluene	2200.00	2000.00	1800.00	2000.00	1550.00							
Xylenes	4000.00	3300.00	2200.00	1100.00	2000.00							
T. BTEX	8900.00	7300.00	6000.00	4775.00	4400.00	· · · · · · · · · · · · · · · · · · ·					<u> </u>	
T. PAHs												
Naphth												
Lead	120.00	120.00	120.00	120.00	100.00				1			
MTBE												
						MW-1		•				



Groundwater Elevations

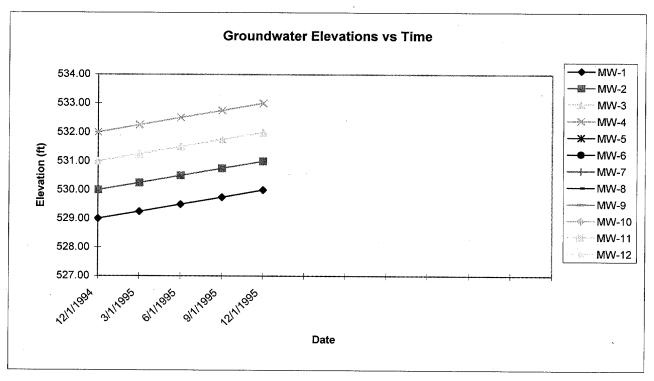
SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name:

Facility I. D. No.

Incident No.

				Sec	tion 15 - Gr	oundwater	Elevation	Мар		
Date	########	3/1/1995	6/1/1995	9/1/1995	#######			1		1
MW-1	529.00	529.25	529.50	529.75	530.00					
MW-2	530.00	530.25	530.50	530.75	531.00					
MW-3	531.00	531.25	531.50	531.75	532.00					
MW-4	532.00	532.25	532.50	532.75	533.00					
MW-5										
MW-6									 	
MW-7									 	
MW-8										
MW-9										
MW-10										
MW-11										
MW-12										



Attach the three (3) most recent groundwater elevation maps with groundwater flow direction clearly marked. The data must also be presented in tabular form and corrected for Free Product, if present.

Operation and Maintenance Costs

SYSTEM-EFFECTIVENESS MONITORING REPORT

Facility Name: Facility I. D. No.

		Section 1	6 - Operati	on & Main	tenance Costs	vs Time	[Current	Event Pl	us Previo	s II Eve	nts	
Date	12/1/1994	3/1/1995	6/1/1995	9/1/1995	12/1/1995							
0 & M	5200.00	5380.00	5500.00	6345.00	2230.00							
Cumulative	5200.00	10580.00	16080.00	22,425.00	24,655.00							

